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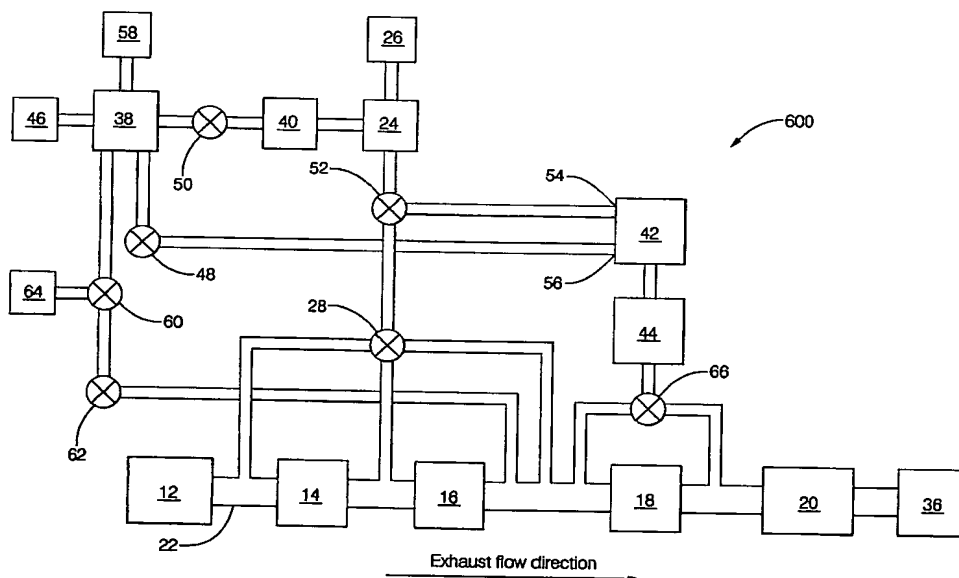
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(54) Title: SYSTEM AND METHOD OF NO<sub>x</sub> ABATEMENT



(57) Abstract: A NO<sub>x</sub> abatement system comprising: a first NO<sub>x</sub> adsorber (18) capable of being disposed in-line and downstream of and in fluid communication with an engine (12); a selective catalytic reduction catalyst (20) disposed in-line and downstream of and in direct fluid communication with the first NO<sub>x</sub> adsorber (18), wherein the selective catalytic reduction catalyst (20) is capable of storing ammonia; and an off-line reformer (24) disposed in selective communication with and upstream of the first NO<sub>x</sub> adsorber (18) and the selective catalytic reduction catalyst (20), wherein the reformer (24) is capable of producing a reformat comprising primarily hydrogen and carbon monoxide.

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